

ABSTRACTCOUPLING SYSTEM BETWEEN HIGH-VOLTAGE ELECTRICAL EQUIPMENT

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The coupling system is of the type composed of a connector (1) which comprises an insulating envelope (2), inside which are housed some conducting elements, which incorporates a semi-conducting layer (3) on the external surface of the envelope (2). This system incorporates a protection device (6) placed around the semi-conducting layer (3). The protection device (6) can, optionally, consist of a conducting ring connected to earth that minimises the arc length in case of a dielectric failure of the coupling system. The protection device may incorporate an inductive current gauge and/or a capacitive voltage gauge that allow obtaining various electrical magnitudes of the high-voltage equipment.

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